

# Introduction to CSREES Competitive Programs




Grantsmanship  
Workshop



# WORKSHOP PROGRAM



## Morning Highlights

- Introduction to CSREES Competitive Programs
  - Understanding the Peer Review Process
  - Tips for Success
  - SBIR Programs of Interest
  - NRI Programs of Interest
  - Insights into Integrated Programs
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# WORKSHOP PROGRAM



## Afternoon Highlights

### Project Presentations

- SBIR-funded Project
- NRI-funded Project
- Integrated Research, Education, and Extension Project



# Introduction to CSREES Competitive Programs



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# CSREES

**C**ooperative  
**S**tate  
**R**esearch  
**E**ducation  
**E**xtension  
**S**ervice



# OUR MISSION

To advance knowledge for  
agriculture, the  
environment, human health  
and well-being, and  
communities.



# CSREES Portfolio of Funding Mechanisms



Formula Funding

Congressional Line Items

Competitive Programs



# CSREES Strategic Goals

- Enhance economic opportunities for agricultural producers
- Support increased economic opportunities and improved quality of life in rural America
- Enhance protection and safety of the nation's agriculture and food supply
- Improve the nation's nutrition and health
- Protect and enhance the nation's resource base and environment

# RESEARCH



Research

Education

Extension

Scientific investigation or inquiry which results in the generation of knowledge



# EDUCATION

A photograph of three young men standing in a field of tall grass. The man on the left is wearing a dark blue polo shirt. The man in the middle is wearing a red baseball cap and a light blue shirt. The man on the right is wearing a grey and blue long-sleeved shirt. They are all looking towards the right side of the frame.

Research

Education

Extension

Formal classroom instruction, laboratory instruction, and practicum experience in food and agricultural sciences and other related matters such as faculty development, student recruitment and services, curriculum development, instructional materials and equipment, and innovative teaching methodologies



# EXTENSION



Research

Education

Extension

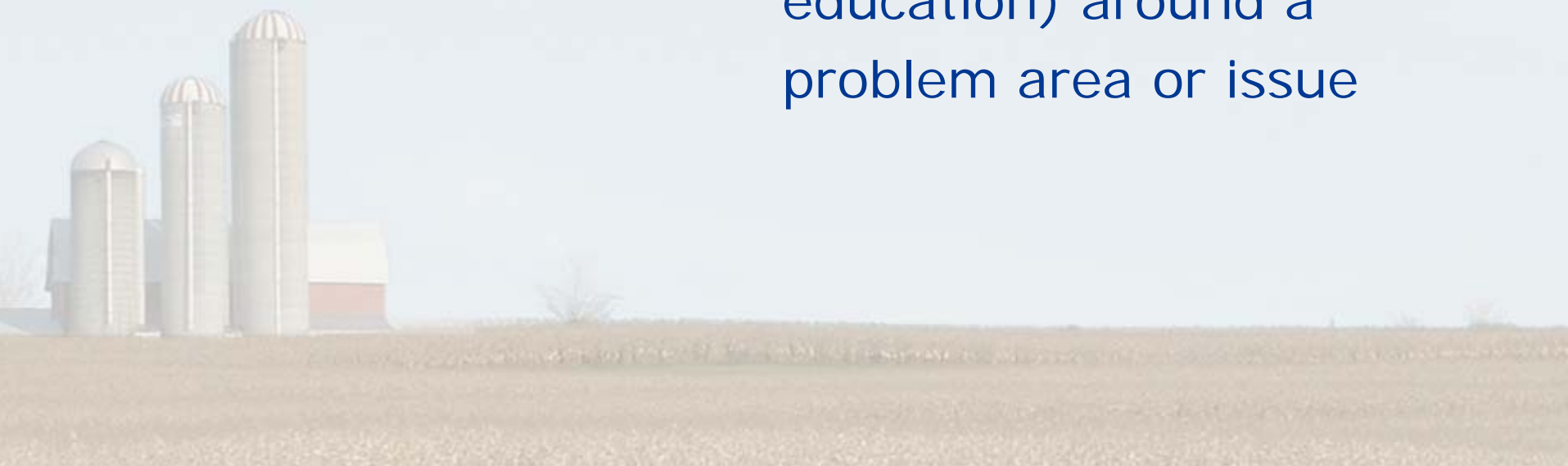
Educational activities with identified learning objectives that deliver science-based knowledge to people outside of the traditional classroom, enabling them to make practical decisions



# Integrated Research, Education, and Extension

I  
n t e g r a t e d  
Research  
Education  
Extension

To bring the three  
components of the  
agricultural knowledge  
system (research,  
extension, and  
education) around a  
problem area or issue





# NATIONAL RESEARCH INITIATIVE



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# National Research Initiative

High priority research and integrated activities in agriculture, the environment, human health and well-being, and rural communities



# National Research Initiative

Fundamental and Mission-linked  
Research - *(Basic and Applied)*

Integrated Projects  
*(Research, Education, and/or  
Extension)*

Single discipline or Multi-disciplinary

Individual Investigator or Teams of  
Investigators



# Congressional Appropriations for the NRI 1991 to 2007

Appropriation (million dollars)



# National Research Initiative

Since 2003, the NRI makes awards under two legal authorities

• **Research**      • **Integrated**

Integrated authority provided through annual appropriations bill (up to 22% of funds in FY 2007 )



# National Research Initiative

Differences between Research and Integrated program elements

Eligibility based on legal authorities

Proposal (and award) types

Award size

“Strengthening” mechanism





# NRI Research Eligibility

State agricultural experiment stations, all colleges and universities, other research institutions, Federal agencies, private organizations, corporations, and individuals

Indirect costs capped at 20%

Matching required only when commodity specific



# Types of NRI Research Proposals

- Standard Research Grants
- Coordinated Agricultural Project (CAP)
- Conferences
- Agricultural Research Enhancement Awards (AREA)
  - Postdoctoral Fellowships
  - New Investigator Awards
  - “Strengthening” Awards

# NRI Standard Research Grants

- Fundamental or mission linked
- Individual or multiple investigators
- One or more disciplines
- Award upper limits range from \$300K to \$2.0M for 2-4 years



# NRI Coordinated Agricultural Project (CAP)

- Designed to target specific gaps or make rapid progress on high priority areas
- Large Awards- \$3 million plus
- May be research or integrated depending on need
- Significant % of flexible funding

# NRI Conference Grants

- Scientific meetings that bring together scientists to identify research, education, or extension needs, update information, or advance an area of science.
- Submit to the most appropriate program area
- Awards up to \$10,000; joint funding with other agencies/organizations encouraged



# NRI Agricultural Research Enhancement Awards (AREA)

## **New Investigator:**

<5 years career-track experience

## **Postdoctoral Fellowships:**

Must be a U.S. citizen

Ph.D. received after January 1, 2004,  
but no later than 9 months after  
program's proposal submission  
deadline

# NRI Strengthening Awards

Standard Strengthening Research Award

Research Career Enhancement Awards

Seed Grants

Equipment Grants



# NRI Strengthening Awards

## Who may Qualify:

Small or mid-sized institutions with limited institutional success

EPSCoR States: Experimental Program for Stimulating Competitive Research

Equipment Grants: degree granting institution not among "Top 100" most successful

# NRI Integrated Eligibility

Federal research agencies, national laboratories, colleges or universities, private research organizations, and state agricultural experiment stations

Indirect costs capped at 20%


Matching required only when commodity specific

# NRI Integrated Projects

- One proposal type: Integrated Project Proposals
- Two award types: Integrated Project grants and Bridge grants
- Research, extension, and/or education (at least two functions required)
- Award size depends on program
- Also Conference Proposals and Coordinated Agricultural Projects

# NRI Integrated Bridge Grants



- To assist small, mid-sized, and minority-serving\* institutions
  - **One-time infusion of up to \$100K**
  - May not apply directly for bridge grants
- \* Enrollment of one or more minority groups exceeds 50% of total
- 

# National Research Initiative

## *FY 2007 RFA*

Organized into program clusters

Greater focus in program priorities

Greater clarity in requests for  
research vs. integrated projects



# National Research Initiative

## *FY 2007 RFA*

- 17 program areas offering integrated priorities
- Letters of Intent required for some program areas





# Integrated Research Education, and Extension Program (Section 406)



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# Integrated Research, Education, and Extension (Section 406)

Authorized in Section 406 of the Agricultural Research, Extension and Education Reform Act of 1998 (AREERA).

Provides funding for integrated, multifunctional agricultural research, extension, and education activities.



# Section 406 Program Characteristics

## Eligible Institutions

Accredited colleges and universities that grant a bachelor's degree or any other higher degree

Also 1994 institutions (2002 Farm Bill)

Matching if commodity specific

Indirect costs capped at 20%

# Section 406 Appropriations

<b>2000</b>	<b>\$39.54 M</b>
<b>2001</b>	<b>41.85 M</b>
<b>2002</b>	<b>42.85 M</b>
<b>2003</b>	<b>44.23 M</b>
<b>2004</b>	<b>39.55 M</b>
<b>2005</b>	<b>43.06 M</b>
<b>2006</b>	<b>42.30 M</b>
<b>2007</b>	<b>42.30 M</b>

# Section 406 Topic Areas

- National Integrated Food Safety Initiative
- National Integrated Water Quality Program
- Integrated Pest Management Programs  
*CAR, RAMP, IPM Centers*
- Methyl Bromide Transitions
- Integrated Organic Program
- \*Pest Management Alternatives Program



# Small Business Innovation Research (SBIR) Program



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# Small Business Innovation Research (SBIR) Program


A red Case IH combine harvester is shown in a field, partially obscured by the title text. The harvester is a large piece of agricultural machinery used for harvesting crops like corn or soybeans.

Research for the development of a profit-making technology, product, or service.



# Small Business Innovation Research (SBIR) Program

A red Case combine harvester is shown in a field, partially obscured by the title banner.

- Two-phase program - feasibility and development
  - \$80,000 (Phase I); \$350,000 (Phase II)
  - Small businesses of 500 employees or less
  - Government-wide
  - 2.5% set-aside of USDA extramural funding for research (Approx. \$19 M in FY2007)
- 
- Three white farm silos are visible in the background, partially obscured by the text.

# SBIR Topic Areas

- Forests & Related Resources
- Plant Production & Protection – Biology and Engineering
- Animal Production & Protection
- Animal Manure Management
- Soil and Water Resources
- Food Science & Nutrition

# SBIR Topic Areas (cont.)

A red Case IH combine harvester is shown in a field, partially obscured by a blue banner at the top of the slide.

- Rural & Community Development
  - Aquaculture
  - Industrial Applications
  - Marketing and Trade
  - Wildlife
  - Small and Mid-size Farms
- 
- Three large metal grain silos are visible in the background of the slide, situated behind a field of dry, golden-brown crops.

# University Involvement in USDA SBIR

Strongly encouraged

Faculty may serve as consultants or receive subcontract and continue to work full time at university

Limited to no more than 1/3 of Phase I award budget or 1/2 of Phase II award budget

# University Involvement in USDA SBIR

Faculty may serve as principal investigator on the grant by:

- reducing university employment to 49% for duration of grant and
- conducting SBIR research off-site (i.e., other than university research lab)

Usually not acceptable for faculty to serve as consultants and have all the research done in their lab